Weatherproof telephone

INDUTEL INDUTEL LED

Operating instructions

FHF FUNKE+HUSTER·FERNSIG

FHF BA 9605-2 10/11

Note

Please read the operating manual carefully before installing the device.
Please check the contents of the box for completeness.

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General operation

1. The InduTel can be operated in the analogue, public telephone network and connected to analogue terminals of branch exchanges.
2. The telephone has a receiver accommodation with a magnetic contact as hook switch. To disconnect an existing connection, the receiver must be replaced. For disconnecting an existing connection, all you need to do is press the disconnect key on the keypad.
3. When programming the settings, the receiver must be off the hook. You enter programming mode by simultaneously pressing the asterisk and the pound sign key.
4. If a procedure has been completed successfully, you will hear an acknowledgement signal. An error tone informs you of any operating mistakes.
5. Should more than 2 minutes pass before you start dialling, the exchange may cut off the power supply. The dial tone can no longer be heard. In this case you should put the receiver back on the hook and wait approximately 2 seconds before you lift it again. Programming sessions that have been started, but have not been completed, must be repeated.
6. When you receive a call, the InduTel rings with the volume and melody you have selected.
7. Entering your personal identification number (PIN) you may partly or completely restrict functions and settings. Forgetting your PIN can be compared to losing a key. If you have forgotten your PIN, please contact our technical support service.

Customer Information

This device has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules.

This device complies with part 68 of the FCC rules and the requirements adopted by the ACTA.

On the right side of this device is a label that contains, among other information, a product identifier in the format US: AAEQ##TXXXX. If requested, this number must be provided to the telephone company.

The REN (Ringer Equivalence Number) is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total REN, contact the local telephone company. The REN is part of the product identifier that has the format US: AAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this telephone causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. Bit if advance notice isn´t practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could effect the operation of the device. If it happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this telephone, for repair or warranty information, please contact [FHF Safety Products Inc. Phone: +1 732-248-1567]. If the device is causing harm to the telephone network, the telephone company may request that you disconnect the device until the problem is resolved.

If you have specially wired alarm equipment connected to the telephone line, ensure the installation of this telephone does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This telephone must not be used on party lines.

This telephone is of a type that is not intended to be repair.

This telephone is hearing aid compatible.

Product label INDUTEL:
US: 6SHTE17B 64501

Product label INDUTEL LED:
US: 6SHTE29B 64506

As-delivered condition

Telephone presetting

Dialling procedure	Dual-tone multifrequency (DTMF), signal duration 90 ms
Signalling key function (R key)	Flash 120 ms
Prefix automatic pause	none
Pause following prefix	3 seconds
Last number redial memory	Empty
Restrictions	Programming restricted
Volume control	12 dB
PIN	0000
Ringing melody	7
Ringing volume	6 = max
Receiver volume	1 = min, default value

Using the programming options, you may reset this as-delivered condition at any time. The PIN will not be altered by resetting.

Mounting and connection

Note: The mounting surface must be able to support 5 lbs.

The device must be installed on a plane surface only, in vertical operating position. For mounting dimensions, see the dimension illustration. Mount the telephone on the wall using four 1/4-inches screws or #14 wood screw of the appropriate length, depending on the mounting surface. Remove the keypad plate with the handset, bring cable into the enclosure through the conduit entrance and attach individual wires from the exchange and connect it with terminal TIP/ RING. TIP/ RING are not polarity sensitive. If a conduit hub is used, ensure it is to the ground stud.

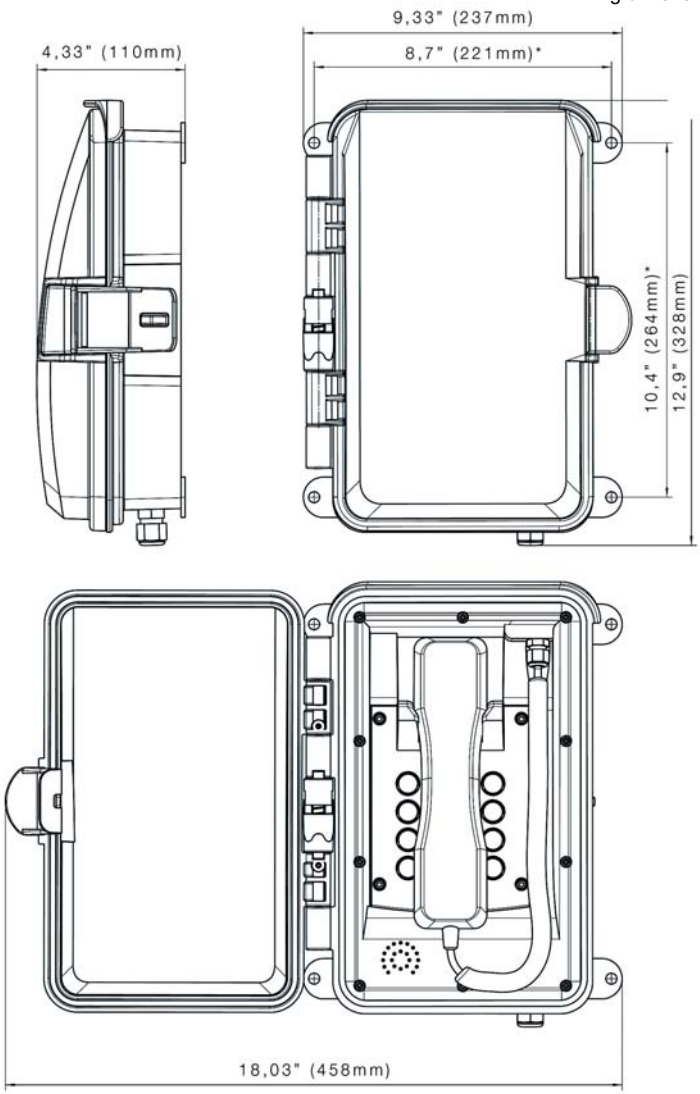
Plug the ribbon cable onto the pin contact strip of the keypad plate.

Tighten the keypad plate using four screws.

CAUTION! EQUIPMENT DAMAGE!

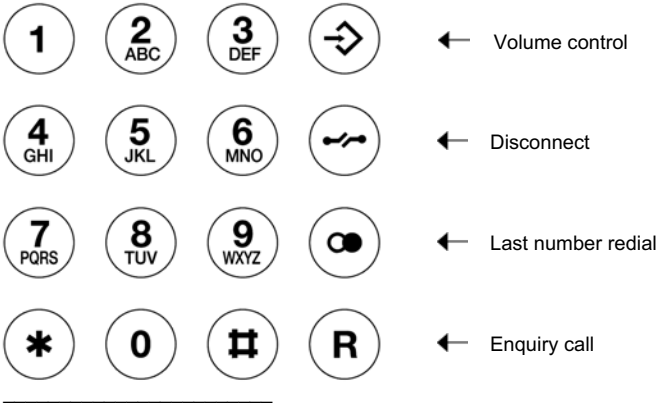
To ensure trouble-free operation of the fixture, ensure that the conduit has been secured to 200 lbf·in: (22 Nm). Do not over tighten as it may cause the enclosure to fracture.

* Drilling dimensions



Operation and programming

Controls



Operation

Occupy line (Make/answer a call)
When you pick up the receiver, you may answer a call or dial a business contact.

Volume control
Press the key to increase the receiver volume during a call. Pressing the key one more time reduces the volume to the previous level.

Make a call
Dial the desired number by using the number keys. When using the dialling procedure Pulse dialling, the asterisk and pound sign keys have no function.

Last number redial
By pressing the last number redial key, the last entered number is automatically dialled when you lift the receiver.

Disconnect
To end a call and start a new call immediately afterwards, there is no need to put the receiver down, just press the disconnect key. When disconnecting, the old call ends, and after a short while you hear the dial tone. You may now enter the number for the new call.

Enquiry call (dual-tone multifrequency only)
If the telephone is connected to a private branch, you may press the enquiry key R in order to establish a connection with another subscriber, who is also connected to the private branch. By pressing this key a second time, you will be connected with the first subscriber again.

Programming

In order to program the telephone, you have to allow modifications of the settings.

Allow settings modifications

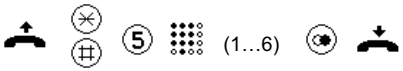
- Lift the receiver.
- Press the * and # keys simultaneously.
- Press the # and 0 keys consecutively.
- Enter PIN (in the as-delivered condition: 0000)
- Press the key, to allow settings modifications.
- Replace the receiver.

Restrict settings modifications

- Lift the receiver.
- Press the * and # keys simultaneously.
- Press the # and 1 keys consecutively.
- Enter the PIN
- Press the key, to disable settings modifications.
- Replace the receiver.

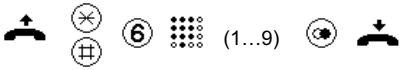
Adjust ringing volume

- Press the * and # keys simultaneously.
- Press key 5 (the ringing sound is played back with the selected volume setting).
- Set the desired volume using the keys 1 to 6.
- Press the key to store the selected volume.
- Replace the receiver.



Adjust the ringing melody

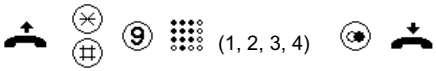
- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 6 (the set melody is played back)
- Set the desired melody using the keys 1 to 9.
- Press the key to store the selected melody.
- Replace the receiver.



Set dialling procedure

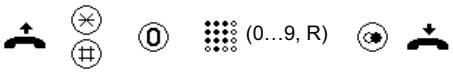
- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 9.
- Enter the code for the desired dialling procedure.
- Press the key to store the selected dialling procedure.
- Replace the receiver.

Code / Key	Dialling procedure	Comment
1	Dual-tone multifrequency (DTMF), unlimited tone duration	The DTMF tone is being generated as long as the associated key is being pressed
2	Dual-tone multifrequency (DTMF), tone duration 90 ms	As-delivered condition
3	Pulse dialling (PD), 1.5 : 1	
4	Pulse dialling (PD), 2 : 1	



Enter prefix for automatic pause

- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 0.
- Enter the pfefix (a digit or the R key;* and # not allowed)
- Press the key to store the entered AKZ automatic pause.
- Replace the receiver.

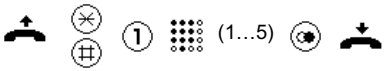


Delete prefix for automatic pause

- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 0.
- Press the # key.
- Press the key to delete.
- Replace the receiver.

Program the pause following the prefix

- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 1.
- Press a key from 1 to 5 (the key number corresponds to the duration in seconds)
- Press the key to store the entered duration of the pause.
- Replace the receiver.

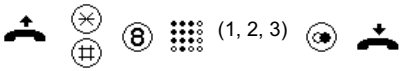


Program the Enquiry Key (flash time)

For dual-tone multifrequency only. Pressing the enquiry key briefly interrupts the loop to the private branch exchange (flash) to enable an enquiry to another private branch connection. The flash time is programmable.

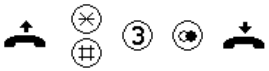
- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 8.
- Enter the code for the desired flash time.
- Press the key to store the selected flash time.
- Replace the receiver.

Code / Key	Flash time	Comment
1	80 ms	
2	120 ms	as-delivered condition
3	600 ms	



Restore to as-delivered condition

- Lift the receiver.
- Press the * and # keys simultaneously.
- Press key 3.
- Press the key to reset the as-delivered condition.
- Replace the receiver.



Upon „Resetting to the as-delivered condition“ the PIN is **not** reset to 0000.

Change Personal Identification Number (PIN)

- Hörer abnehmen
  Lift the receiver.
- Press the * and # keys simultaneously.
- Press the # and 2 keys consecutively.
- Enter the old PIN.
- Enter new PIN.
- Repeat new PIN.
- Press the key to store the new PIN.
- Replace the receiver.

Signalling tones during programming

Tone	Number	Significance
Acknowledgement tone	1 long tone	Completion of a correctly performed procedure.
Error tone	4 short tones	An error occurred within a procedure. The procedure is cancelled.
PIN tone	1 short tone sequence	Prompt to enter the PIN.

Optical call indication (only INDUTEL LED)

In case of an incomming call the handset holder starts blinking.

General information

Service

You have bought a modern FHF product subject to meticulous quality control. If any questions regarding the telephone, or malfunctions should occur – even after the guarantee has expired – please contact FHF. Please have the type denomination and product number (to be found on the nameplate) ready.

Care and maintenance

The telephone is maintenance-free. Still, if the operating area is highly contaminated by dust, fat, oil etc., the device should be cleaned from time to time. Use a moist cloth to dust off the receiver and the device.

Warning! Never use sharp objects for cleaning. Do not use other polishing or abrasive substances.

Movable parts of the housing may NOT (!) be covered by lubricants like oil, grease etc.!

Waste disposal

The device may be completely recycled as electronic waste. Upon disassembling, the plastic, metal and electronic components must be disposed of separately. In every single case the local requirements disposal must be observed.

Warnings and security information

This device is a weatherproof telephone especially designed for use in rugged industrial environments. Please note the following warnings and security information:

1. The typerating 3R can only be guaranteed if the housing is closed.
2. The telephone is a Protective Class II device and may only be connected to and operated at the voltage it was designed for. Make sure the connections are in perfect order.
3. The telephone may only be operated at the given ambient conditions (see also under “Technical Specifications”). Adverse ambient conditions, as for instance too high or too low ambient temperatures are not allowed, due to increased risk of an electronic parts breakdown.
4. Make sure the telephone, the handset cable, etc. are not damaged. If the telephone is damaged, it may not be operated.
5. While the telephone is in operation please follow all relevant legal and professional regulations, the accident prevention regulations of the Employers' Liability Insurance Association, and laws and regulations governing the use and connection of electric devices.
6. In case of repairs, use only original spare parts. Replace such parts according to professional standards. Other spare parts may cause damage. The guarantee is rendered invalid.
7. Before the telephone is repaired or replaced, it must be disconnected from the power supply. If the maintenance or repair of a live device cannot be avoided, this must be done by authorised personnel only.
8. Do not damage the covers keeping the housing tight when mounting or demounting the device.
9. Take into consideration the required operating position.
10. This product is subject to technical improvements without prior notice.
11. **CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger (e.g. 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.**
12. This equipment is suitable for use in non-harzardous location only.

Technical Specifications

Examination certificate	E337081
Connection data:	
Supply voltage	24…66 Vdc
Supply current	19… 100 mA
Ringing type	B
REN	1.7 for INDUTEL, 2.9 for INDUTEL LED
Enquiry key (flash)	only for DTMF 80 ms, 120 ms, 600 ms
Dialling procedure	
DTMF	Frequencies according to ITU-T Q.23 Tone duration unlimited or 90 ms
PD	Pulse/Pause ratio 1.5:1 (60/40 ms) or 2:1 (66.7/33.3 ms)
Ringing volume	when the housing cover is open Approx. 90 dB(A) at 1 m distance when the housing cover is closed Approx. 65 dB(A) at 1 m distance
Housing	
Height x Width x Depth	13 x 9,33 x 4,33 in (330 x 237 x 110 mm)
Weight	5 lb (2.3 kg)
Operating utilization position	Vertical wall mounting
Receiver	
Mouthpiece	Electret-foil microphone
Receiver inset	dynamic receiver, hearing aid compatible
Connections	Single- or multiwired up to AWG 14 (2.5 mm^2)
Terminal marking	TIP/ RING
Ambient operating temp.	-40°F…+131°F -40°C…+55°C
Transport and storage temp.	-40°F…+158°F -40°C…+70°C
Enviromental Rating	Type 3R UL50
Wiring access	1/2“ NPT conduit Hub

Standards and regulation

Conformity to the following standards and regulations

- FCC Part 15
- FCC PART 68
- TIA -968-B
- UL50
- UL 60950-1
- UL 60950-22
- CSA C 22.2 No. 60950-1

Installation and connectability

To provide flexibility and potential for growth, telephones are easily and economically connected to any telephone network by standard wiring and parts. Voice quality is unaffected when phones are connected within 15,00 feet (4,600 meters) of a main telephone switch accepting single line telephones. Meeting safety standards may require use of special wiring conduits or other consideration. Telephones are tone/pulse switchable. Initial setting is to tone prior to delivery (unless requested otherwise). In-service switching may require technical assistance.

Subject to alterations
or errors

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